

AATGAAAGACCCACCTGTAGGTTGGCAAGCTAGCTTAAGTAACGCCAT  
TTGCAAGGCATGGAAAAATACATAACTGAGAATAGAAAAGTCAGATCA  
AGGTCAGGAACAGATGGAACAGCTGAATATGGGCCAAGCAGGATATCTGT  
GGTAAGCAGTCCTGCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTG  
AATATGGCCAACACAGATATCTGTGTAAGCAGTCCTGCCCGGCTCA  
GGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCAGCAGTTCT  
AGAGAACCATCAGATGTTCCAGGGTGCCCCAAGGACCTGAAATGACCC  
GTGCCTTATTGAACTAACCAATCAGTCGCTCTCGCTCTGTCGCG  
GCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTGGGG  
CGCCAGTCCTCCGATTGACTGAGTCGCCGGTACCCGTGTATCCAATAA  
ACCCCTTGCACTGCATCCGACTTGTGGTCTCGCTGTCCTGGGAGGG  
TCTCCTCTGAGTGATTGACTACCCGTCAAGCGGGGGTCTTCATTGGGG  
CTCGTCCGGGATCGGGAGACCCCTGCCAGGGACCACGACCCACCG  
GGAGGTAAAGCTGCCAGCAACTTATCTGTGTCTGCACTGTCTAGTGT  
CTATGACTGATTTATGCGCCTGCGTCGGTACTAGTTAGCTAACTAGCTC  
TGTATCTGGCGGACCCGTGGTGGAACTGACGAGTCGAAACACCCGGCG  
CAACCCCTGGGAGACGTCCCAGGTGGGGCCCTTTGTGGCCGACCTG  
AGTCCAAAAAATCCCGATCGTTTGACTCTTGGCAGCTTCCCTAGAG  
GAGGGATATGTGGTCTGGTAGGAGACGAGAACCTAAACAGTCCCG  
TCCGTCTGAATTTCGTTCGGTTGGACCGAAGCCGCGCCGCGTC  
TTGTCTGCTGCAGCATCGTCTGTGTCTGACTGTGTTCTG  
TATTGTCTGAAAATATGGCCCGGGCAGACTGTTACCAACTCCCTTAAG  
TTTGACCTTAGGTCACTGGAAAGATGTCGAGCGGATCGCTACAACCA  
CGGTAGATGTCAAGAAGAGACGTTGGTACCTCTGCTCGAGAATGG  
CCAACCTTAACGTCGGATGGCGCGAGACGGCACCTTAACCGAGACCT  
CATCACCCAGGTTAAGATCAAGGTCTTACCTGGCCGATGGACACC  
CAGACCAGGTCCCTACATCGTGACCTGGGAAGCCTGGCTTGACCCC  
CCTCCCTGGGTCAGGCCCTTGACACCTTAAGCCTCCGCTCTTCC  
TCCATCCGCCCGTCTCTCCCCCTGAACCTCCTCGTTGACCCGCC  
GATCCTCCCTTATCCAGCCCTACTCCTCTAGGCGCCCCATATGG  
CCATATGAGATCTTATATGGGCACCCCGCCCTGTAAACTCCCTGA  
CCCTGACATGACAAGAGTTACTAACAGCCCTCTCTCAAGCTC  
AGGCTCTACTTAGTCCAGCACGAAGTCTGGAGACCTCTGGCGGCAGCC  
TACCAAGAACAACTGGACCGACCGGTGGTACCTCACCCCTACCGAGTCGG  
CGACACAGTGTGGTCCGCCGACACCAGACTAACAGAACCTAGAACCTCGCT  
GGAAAGGACCTTACACAGTCTGCTGACCAACCCCCACCGCCCTCAAAGTA  
GACGGCATCGCAGCTGGATACACGCCGCCACGTGAAGGCTGCCGACCC  
CGGGGGTGGACCACCTCTAGACTGCCGATCCCAGTGTGGTAGGGA  
ATTCAAGCTGATCTCTATAATCTCGCGCAACCTATTTCCTCGAACA  
CTTTTAAGCCGTAGATAAACAGGCTGGACACTTCACATGAGCGAAAAAA  
TACATCGTCACCTGGACATGTTGACAGATCCATGCACTAAACTCGCAA  
GCCGACTGATGCCCTCTGAACAATGGAAAGGCATTATTGCCGTAAGCC  
GGCGGTCTGGTACCGGTGGTGAAGACCGAGAACAGCACCTCGATCTGAG  
CCGCGATATTGCCAGCGTTCAACCGCTGTATGGCGAGATCGATCCCG  
TCGTTTACAACGTCGTGACTGGAAAACCTGGCGTACCCAACTTAAT  
GCCCTGGAGGGACATCCCCCTTCGCCAGCTGGCGTAATAGCGAACAGGGC

**Figure 1**

CCGCACCGATCGCCCTCCCAACAGTTGCGCAGCCTGAATTGGCGAATGG  
CGCTTGCCTGGTTCCGGCACCAAGCGGTGCCGAAAGCTGGCTGGA  
GTGCGATCTCCTGAGGCCGATACTGTCGTCGTCCCCTCAAACCTGGCAGA  
TGCACGGTTACGATGCGCCCACATCTACACCAACGTGACCTATCCCATTACG  
GTCAATCCGCCGTTGTCACCGAGAACGAGTCCGACGGGTTGTTACTCGCT  
CACATTTAATGTTGATGAAAGCTGGTACAGGAAGGCCAGACGCGAATT  
ATTTTGATGGCGTTAATCGCGTTCATCTGTTGCAACGGGCGCTG  
GGTCGGTTACGGCAAGACAGTCGTTGGCGTCTTAATTGAGCTCGAGC  
GCATATCTACGCCGGAGAAAACCGCCTCGCGGTGATGGTGCCTGCGCTG  
GAGTGAACGGGAGTTATCTGAAAGATCAAGATATGTGGCGGATGAGCGGGA  
TTCCGAGCAGAAAACGGTCTGCGCTGCCGACGCCGAATTGAATTATGGC  
CCACACCAGAGTGGCGCGACTTCAGTTCAACATCAGCGCTACAG  
TCAACAGCAACTGATGGAAACCAGCCATGCCATCTGCTGCACGCCGAAG  
AACCGACATGGCTGTTACGACGGTTCCATATGGGGATTGGTGGCGAC  
GACTCCTGGAGCCGTCAGTATCGCGGAATTCCAGCTGAGCGCCGGTCG  
CTACCATTACCAGTTGGTCTGGTCAAAAATAATAACCGGGCAGGC  
CATGTCCTGCCGTATTCGCGTAAGGAAATCCATTATGTAACATTAAAC  
TCGAGCGGCCAGCACAGTGGTCACGATAAAATAAAAGATTITATT  
AGTCTCCAGAAAAAGGGGGAATGAAAGACCCACCTGAGGTTGGCAA  
GCTAGCTTAAGTAACGCCATTGGAAGGCATGGAAAAATACATAACTGA  
GAATAGAGAAGTCAGATCAAGGTAGGAACAGATGGAACAGCTGAATAT  
GGGCCAAACAGGATATCTGTTGTAAGCAGTTCCCTGCCCGGCTAGGGCC  
AAGAACAGATGGAACAGCTGAATATGGGCCAAACAGGATATCTGTTGTA  
GCAGTTCTGCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCC  
TCCAGCCCTCAGCAGTTCTAGAGAACCATCAGATGTTCCAGGGTGCC  
CAAGGACCTGAAATGACCTGCTGCCATTGAACTAACCAATCAGTC  
CTTCTCGCTCTGTCGCGCCTCTGCTCCCCGAGCTCAATAAAAGAGC  
CCACAACCCCTCACTCGGGCGCCAGTCCTCGATTGACTGAGTCGCC  
GGTACCCGTATCCAATAACCCCTTGCAGTTGCATCCGACTTGTGGT  
CTCGCTGTTCTGGAGGGTCTCTGAGTGATTGACTACCCGTCAGC  
GGGGTCTTCATTCTGCATTGAATGAAACGCCAACGCGCGGGAGAGGC  
GGTTGCGTATTGGCGCTCTCCGCTTCGCTCACTGACTCGCTGCG  
CTCGCTGTTCTGGCTCGCGAGCGGTATCAGCTCAACTAACAGCGTAA  
TACGGTTATCCACAGAACGAGGATAACGCAGGAAAGAACATGTGAGCA  
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TTTCCATAGGCTCCGCCCTGACGAGCATCACAAAAATCGACGCTCAA  
GTCAGAGGTGGCGAAACCCGACAGGACTATAAGAACGAGTACCGCTTCCC  
CCTGGAAAGCTCCCTCGTCGCTCTCTGTTCCGACCCCTGCCGTTACCGG  
ATACCTGTCCGCCCTTCTCCCTCGGGAAAGCGTGGCGCTTCTCATAGCT  
CACGCTGTAGGTATCTCAGTCGGTAGGTCGTTCGCTCCAAGCTGGC  
TGTGTGACGAACCCCCCGTTCAGCCGACCGCTGCCCTTATCCGGTAA  
CTATCGTCTTGAGTCCAACCCGGTAAGACACGACTATCGCCACTGGCAG  
CAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACA  
GAGTCTTGAAGTGGTGGCTAAACTACGGCTACACTAGAACGAGTATT  
TGGTATCTGCGCTCTGCTGAAGCCAGTTACCTCGGAAAAAGAGTTGGTA  
GCTCTTGTACCGCAAACAAACCACCGCTGGTAGCGGTGGTTTTGTT

**Figure 1**

TGCAAGCAGCAGATTACCGCAGAAAAAAAGGATCTCAAGAAGATCCTT  
GATCTTTCTACGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAG  
GGATTTGGTCATGAGATTATAAAGGATCTCACCTAGATCCTTTG  
CGGCCGGCCGCAAATCAATCTAAAGTATATGAGTAAACTGGTCTGAC  
AGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATT  
TCGTTCATCCATAGTTGCCTGACTCCCCGTCGTAGATAACTACGATAC  
GGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATAACCGCGAGACCCA  
CGCTCACCGGCTCCAGATTATCAGCAATAAACCAGCCAGCCGGAAGGGC  
CGAGCGCAGAAGTGGCCTGCAACTTATCCGCCTCCATCCAGTCTATT  
ATTGTTGCCGGAAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTTGCGC  
AACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCGTTGG  
TATGGCTTCATTAGCTCCGGTCCAAACGATCAAGGGGAGTTACATGAT  
CCCCCATGTTGCAAAAAGCGGTTAGCTCCTCGGTCTCCGATCGTT  
GTCAGAAAGTAAGTTGCCAGTGTATCACTCATGGTTATGGCAGCACT  
GCATAATTCTCTACTGTCATGCCATCCGTAAGATGCTTTCTGTGACTG  
GTGAGTACTCAACCAAGTCATTGAGAATAGTGTATGCCGACCGAGT  
TGCTCTGCCGGCGTCAACACGGATAATACCGGCCACATAGCAGAAC  
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GGATCTTACCGCTGTTGAGATCCAGITCGATGTAACCCACTCGTGCACCC  
AACTGATCTTCAGCATTTTACTTCACCAAGCGTTCTGGGTGAGCAA  
AACAGGAAGGCAAAATGCCGAAAAAAGGAAATAAGGGCGACACGGAAAT  
GTTGAATACTCATACTCTCCTTTCAATATTATTGAAGCATTATCAG  
GGTTATTGTCTCATGAGCGGATACATATTGAATGTATTAGAAAAATAA  
ACAAATAGGGTTCCCGCAGCATTCTGCAT

**Figure 1**

AATGAAAGACCCACCTGTAGGTTGGCAAGCTAGCGCGGCCGCATAACT  
TCGTATAGCATACATTATACGAAGTTATTAATTAAAGCGCGCCTCTAGC  
TTAAGTAACGCCATTGCAAGGCATGGAAAAATACATAACTGAGAATAG  
AGAAGTTCAGATCAAGGTCAAGAACAGATGGAACAGCTGAATATGGGCCA  
AACAGGATATCTGTGGTAAGCAGTCTGCCCGGCTCAGGGCCAAGAAC  
AGATGGAACAGCTGAATATGGGCCAACACAGGATATCTGTGGTAAGCAGTT  
CCTGCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGC  
CCTCAGCAGTTCTAGAGAACCATCAGATGTTCCAGGGTCCCCAAGGA  
CCTGAAATGACCTGTGCCTTATTGAACTAACCAATCAGTCGCTTCTC  
GCTTCTGTCGCGCTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAA  
CCCCTCACTCGGGCGCCAGTCCTCCGATTGACTGAGTCGCCGGGTACC  
CGTGTATCCAATAAACCTCTTGCAGTGCATCCGACTGTGGTCTCGCT  
GTTCTGGGAGGGTCTCCTCTGAGTGATTGACTACCCGTAGCGGGGGT  
CTTCATTGGGGCTCGTCCGGATCGGAGAACCTGCCAGGGACCA  
CCGACCCACCACCGGGAGGTAAGCTGCCAGCAACTTATCTGTGTCTGTC  
CGATTGTCTAGTGTCTATGACTGATTGACTACCCGTAGCGGGGGT  
TAGCTAACTAGCTCTGTATCTGCCGACCCGTGGTGGAACTGACGAGTC  
GGAACACCCGGCCGCAACCCCTGGGAGACGTCCCAGGGACTCGGGGGCG  
TTTTGTGGCCCGACCTGAGTCAAAAAATCCGATCGTTGGACTCTT  
TGGTGCACCCCCCTAGAGGAGGGATATGTGGTCTGGTAGGAGACGAGA  
ACCTAAAACAGTCCCGCCTCCGTCTGAATTTCGTTCTGGTTGGAC  
CGAAGCCGCGCCGCGCGTCTGCTGCTGCAGCATCGTCTGTGGTCT  
CTGCTGACTGTGTTCTGATTGCTGAAATAAGGGCCGGCCAGA  
CTGTTACCACTCCCTTAAGTTGACCTAGGTCACTGGAAAGATGTCGAG  
CGGATCGCTACAACCAGTCGGTAGATGTCAAGAAGAGACGTGGTTAC  
CTTCTGCTCTGCAGAATGCCAACCTTAACGTCGGATGGCCGCGAGACG  
GCACCTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTCA  
CCTGGCCCGCATGGACACCCAGACCAGGTCCCTACATCGTACCTGGGA  
AGCCTGGCTTGACCCCCCTCCCTGGGTCAAGCCCTTGTACACCCCTA  
AGCCTCCGCTCCTCTCCATCCGCCCGTCTCTCCCCCTGAAACCT  
CCTCGTTGACCCCGCCTCGATCCCTCCCTTATCCAGCCCTACTCCTC  
TCTAGGCGCCCCATATGCCCATATGAGATCTTATATGGGGCACCCCCC  
CCCTTGTAAACTCCCTGACCCCTGACAAGACAAGAGTTACTAACAGCCCC  
TCTCTCCAAGCTCACTTACAGGCTCTACTTAGTCCAGCACGAAGTCTG  
GAGACCTCTGGCGCAGCCTACCAAGAACAACTGGACCGACCGGTGGTAC  
CTCACCCCTACCGAGTCGGCGACACAGTGTGGTCCGCCGACACCAGACT  
AAGAACCTAGAACCTCGCTGGAAAGGACCTAACACAGTCCTGCTGACCAAC  
CCCCACCGCCCTCAAAGTAGACGGCATCGCAGCTGGATACACGCCGCC  
ACGTGAAGGCTGCCGACCCCAGGGTGGACCATCCTCTAGACTGCCGGAT  
CCCAGTGTGGTGGTAGGAAATTCTTAATTAAACGCCACCATGGTGAGCAAG  
GGCGAGGAGCTGTTACCCGGGTGGGCCATCCTGGTCAGCTGGACGG  
CGACGTAAACGGCCACAAGTTCAGCGTCTGGCGAGGGCGAGGGCGATG  
CCACCTACGGCAAGCTGACCCCTGAAGTTCATCTGCACCACCGCAAGCTG  
CCCGTGCCTGGCCCACCCCTGACCAACCTGACCTACGGCGTGCAGTG  
CTTCAGCCGCTACCCGACCACATGAAGCAGCACGACTCTTCAAGTCCG  
CCATGCCGAAGGCTACGTCCAGGAGCGCACCACCTTCAAGGACGAC

Figure 2

GGCAACTACAAGACCCGCGCGAGGTGAAGTCGAGGGCGACACCCTGGT  
GAACCGCATCGAGCTGAAGGGCATCGACTCAAGGAGGACGCCAACATCC  
TGGGGCACAAAGCTGGAGTACAACACTACAACAGGCCACAACGTCTATATCATG  
GCCGACAAGCAGAAGAACGGCATCAAGCGAAGTCAAGATCCGCCACAA  
CATCGAGGACGGCAGCGTGCAGCTCGCCGACCAACTACCAGCAGAACACCC  
CCATCGGCACGGCCCCGTGCTGCTGCCGACAACCACCTACCTGAGCACC  
CAGTCCGCCCTGAGCAAAGACCCAACGAGAACGCGCATCACATGGTCT  
GCTGGAGTTCTGACCGCCGCCGGATCACTCTCGGCATGGACGAGCTGT  
ACAAGTAATGAATTAAATAAGAATTCCAGCTGAGCGCCGTCGCTACCAC  
TACCAAGTTGGTCTGGTGTCAAAAATAATAACCGGGCAGGCCATGTCT  
GCCCGTATTTCGCGTAAGGAATCCATTATGTACTATTAAACTCGAGCG  
GCCGGCCGCCAGCACAGTGGTCAGTGTGACAATTAAATCATCGGCATAG  
TATATCGGCATAGTATAATACGACAAGGTGAGGAACCTAAACCATGGCCAA  
GTTGACCAGTGCCGTTCCGGTGCCTACCGCGCGACGTCGCCGGAGCGG  
TCGAGTTCTGGACCCGACCGGCTCGGGTCTCCCGGGACTTCGTGGAGGA  
CGACTTCGCCCGGTGGTCCGGGACGACGTGACTCTGTTCATCAGCGCG  
GTCCAGGACCAGGTGGTGCAGACAACACCCCTGGCCTGGGTGTGGGTGCG  
CGGCCTGGACGAGCTGTACGCCAGTGGTCGGAGGTGTCGTCCACGAAC  
TCCGGGACGCCTCCGGGCCGGCATGACCGAGATCGGCAGCAGCCGTGG  
GGCGGGAGTTCGCCCTGCGCAGCCGGCCGAACCTGCGTGCACATTG  
GGCCGAGGAGCAGGACTGAACCGTCCCCTAGAAAAGATCAAAGGATCTT  
CTTGAGATCCTTTCTGCGCGTAATCTGCTGCTGCAAACAAAAAAA  
CCACCGCTACCAGCGGTGGTTGCTGCCGATCAAGAGCTACCAACTCT  
TTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATAACAAATACTGTT  
TTCTAGTGTAGCCGTAGTTAGGCCACCACTCAAGAACTCTGTAGCACCG  
CCTACATACCTCGCTCTGCTAACCTGTTACCAAGTGGCTGCTGCCAGTGG  
CGATAAGTCGTGCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATA  
AGGCGCAGCGGTGGCTGAACGGGGGGTCTGACACAGCCAGCTT  
GAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGA  
AAGCGCCACGCTCCGAAGGGAGAAAGGCAGACAGGTATCCGTAAGCG  
GCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTCCAGGGAAACGCC  
TGGTATCTTATAGTCCTGTCGGGTTCGCCACCTCTGACTGAGCGTCG  
ATTTTGTGATGCTCGTCAGGGGGCGGAGCCTATGGAAAAACGCCAGCA  
ACGCGCCTTTACGGTCTGGCCTTGTGCTGGCCTTGCTCACATA  
TCGATTAGTCCAATTGTTAAAGACAGGATATCAGTGGTCCAGGCTCTAG  
TTTGACTCAACAATATCACCAGCTGAAGCCTATAGAGTACGAGCCATAG  
ATAAAATAAAAGATTTATTAGTCTCCAGAAAAAGGGGGG

Figure 2

Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	20	40	60	80
	1 AAGGGCCCGGCCAGACTGTCTTACCACTCCCTTAAGTTGACCTTAGTCACTGGAAAGATGTCGAGCGGATCGCTCACAA			80
	1 ATGGGCCCGGCCAGACTGTCTTACCACTCCCTTAAGTTGACCTTAGTCACTGGAAAGATGTCGAGCGGATCGCTCACAA			80
	20	40	60	80
	• 100	• 120	• 140	• 160
	81 CCACTCGGTAGATGTCAGAAGAGACGTTGGGTTACCTCTGCTCTGAGAATGCCAACCTTAACGTCGGATGGCCGC			160
	81 CCACTCGGTAGATGTCAGAAGAGACGTTGGGTTACCTCTGCTCTGAGAATGCCAACCTTAACGTCGGATGGCCGC			160
	100	120	140	160
	• 180	• 200	• 220	• 240
	161 GAGACGGCACCTTAACCGAGACCTCATCACCCAGGTAAAGATCAAGGTCTTTCACCTGGCCCGATGGACACCCAGAC			240
	161 GAGACGGCACCTTAACCGAGACCTCATCACCCAGGTAAAGATCAAGGTCTTTCACCTGGCCCGATGGACACCCAGAC			240
	180	200	220	240
	• 260	• 280	• 300	• 320
	241 CAGGTCCCCATCGTGACCTGGGAACCCCTGGCTTTGACCCCCCTCCCTGGTCAGGCCCTTGTACACCCCTAAGCC			320
	241 CAGGTCCCCATCGTGACCTGGGAACCCCTGGCTTTGACCCCCCTCCCTGGTCAGGCCCTTGTACACCCCTAAGCC			320
	260	280	300	320
	• 340	• 360	• 380	• 400
	321 TCCGCCTCCTCTTCCATCCGCCCCGCTCTCCCCCTTGAAACCTCTCGTTGACCCCCGCTCGATCCTCCCTTATC			400
	321 TCCGCCTCCTCTTCCATCCGCCCCGCTCTCCCCCTTGAAACCTCTCGTTGACCCCCGCTCGATCCTCCCTTATC			400
	340	360	380	400
	• 420	• 440	• 460	• 480
	401 CAGCCCTCACTCTCTCTAGGCGCCCCATATGGCCATATGAGATCTTATATGGGGCACCCCCGCCCCTTGTAAACTTC			480
	401 CAGCCCTCACTCTCTCTAGGCGCCCCATATGGCCATATGAGATCTTATATGGGGCACCCCCGCCCCTTGTAAACTTC			480
	420	440	460	480
	• 500	• 520	• 540	• 560
	481 CCTGACCCCTGACAAGACAAGAGTTACTAACAGCCCCCTCTCCAAGCTCACTTACAGGCTCTCTACTTAGTCAGCACGA			560
	481 CCTGACCCCTGACAAGAGTTACTAACAGCCCCCTCTCCAAGCTCACTTACAGGCTCTCTACTTAGTCAGCACGA			560
	500	520	540	560
	• 580	• 600	• 620	• 640
	561 AGTCTGGAGACCTCTGGCGCAGCCTACCAAGAACAACTGGACCGACCGGTGGTACCTCACCCCTTACCGAGTCGGCGACA			640
	561 AGTCTGGAGACCTCTGGCGCAGCCTACCAAGAACAACTGGACCGACCGGTGGTACCTCACCCCTTACCGAGTCGGCGACA			640
	580	600	620	640
	• 660	• 680	• 700	• 720
	641 CAGTGTGGGTCCGCCGACACCAAGACTAACGAAACCTAGAACCTCGCTGAAAGGACCTTACACAGTCCCTGCTGACCACCCCC			720
	641 CAGTGTGGGTCCGCCGACACCAAGACTAACGAAACCTAGAACCTCGCTGAAAGGACCTTACACAGTCCCTGCTGACCACCCCC			720
	660	680	700	720
	• 740	• 760	• 780	• 800
	721 ACCGCCCTCAAAGTAGACGGCATCGCAGCTGGATACACGCCGCCACGTGAAGGCTGCCGACCCCCGGGGTGGACCATC			800
	721 ACCGCCCTCAAAGTAGACGGCATCGCAGCTGGATACACGCCGCCACGTGAAGGCTGCCGACCCCCGGGGTGGACCATC			800
	740	760	780	800
	• 820			
	801 CTCTAGACTGCCGGATCCCAGTGTGG (SEQ ID NO:2)			826
	801 CTCTAGACTGCCGGATCCCAGTGTGG (SEQ ID NO:1)			826
	820			

% Identity = 99.8 (824/826)

Figure 3

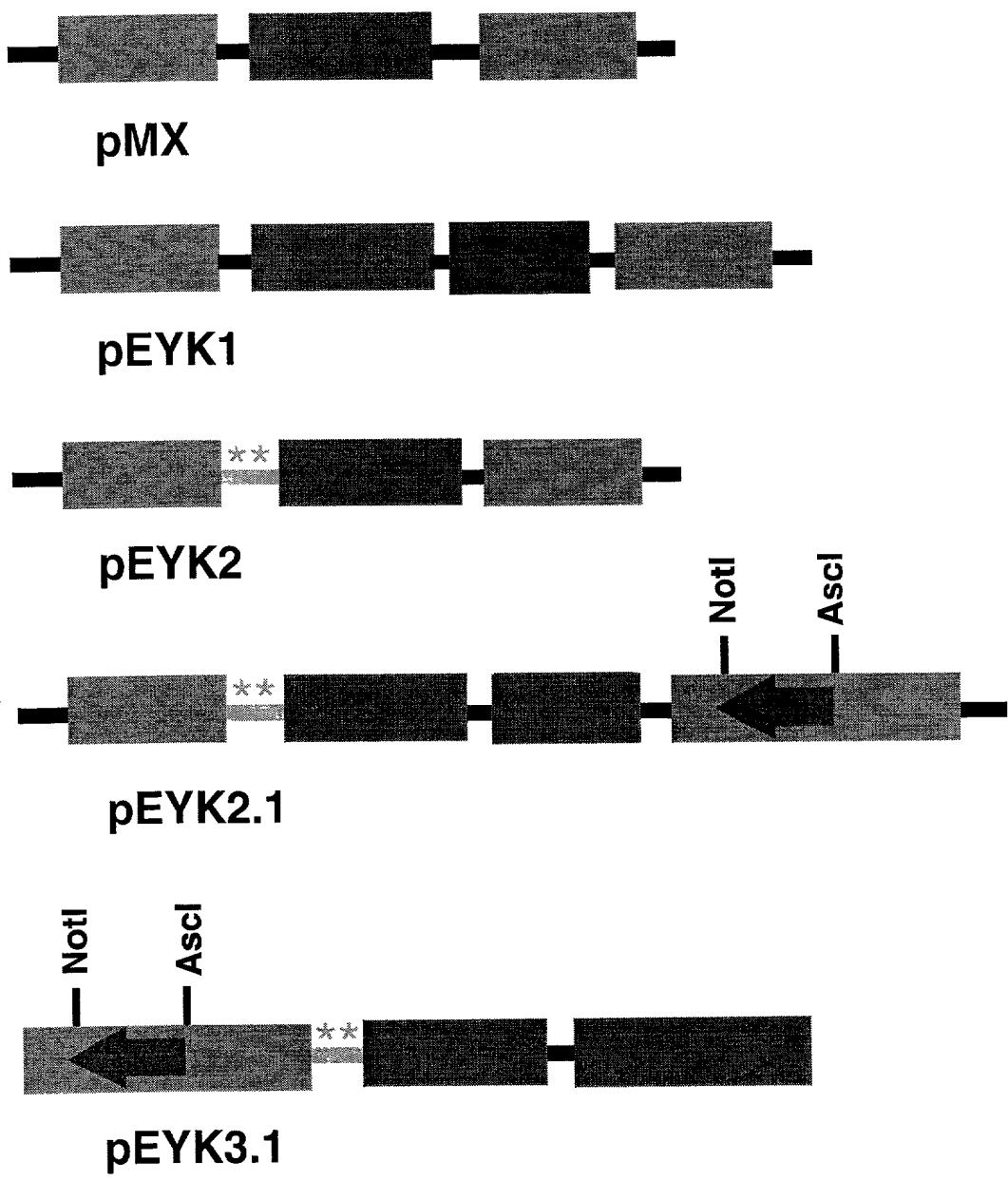
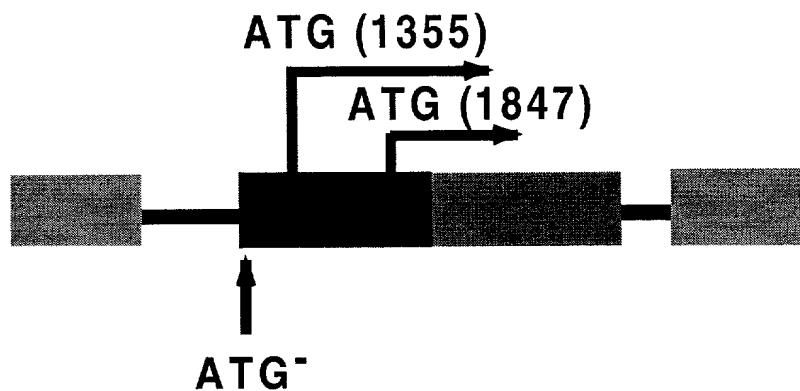


Figure 4

**A) pMX**



**B) pEYK2**

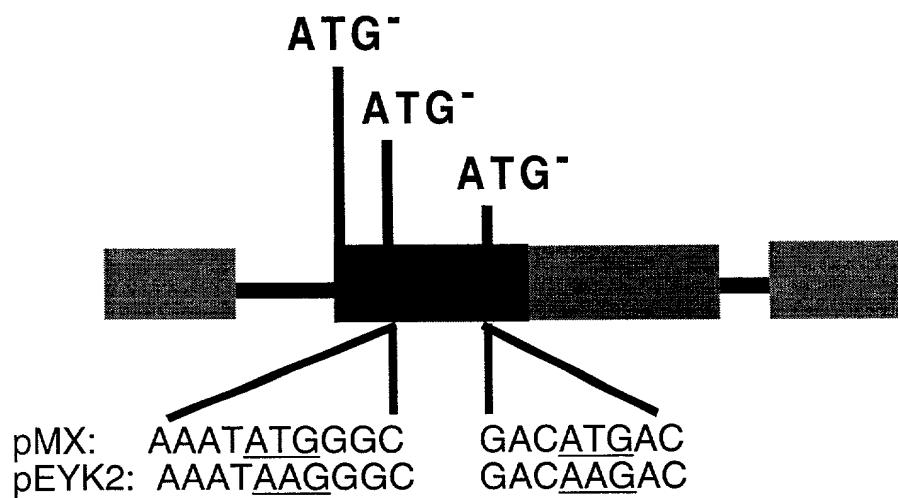


Figure 5

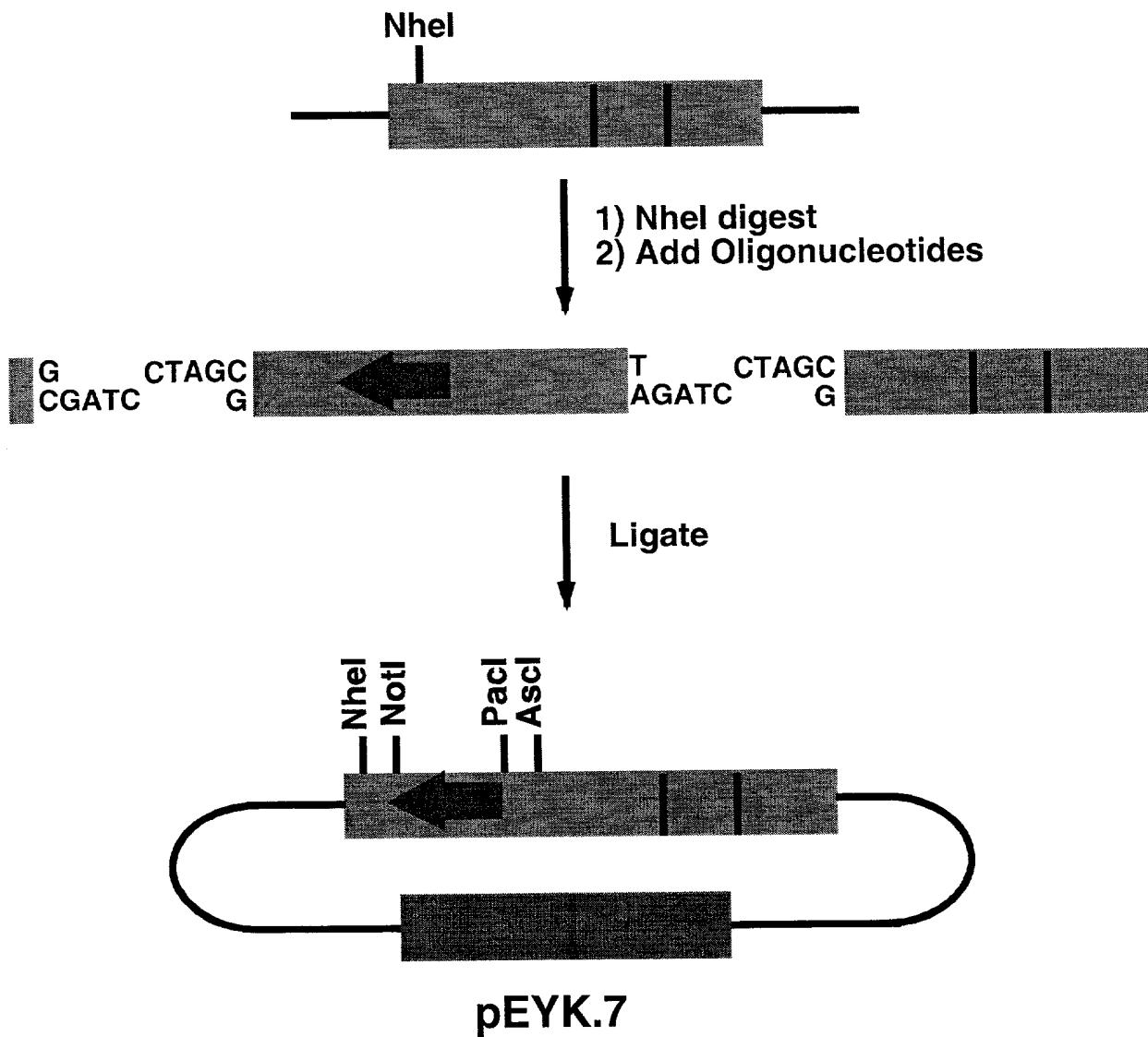


Figure 6

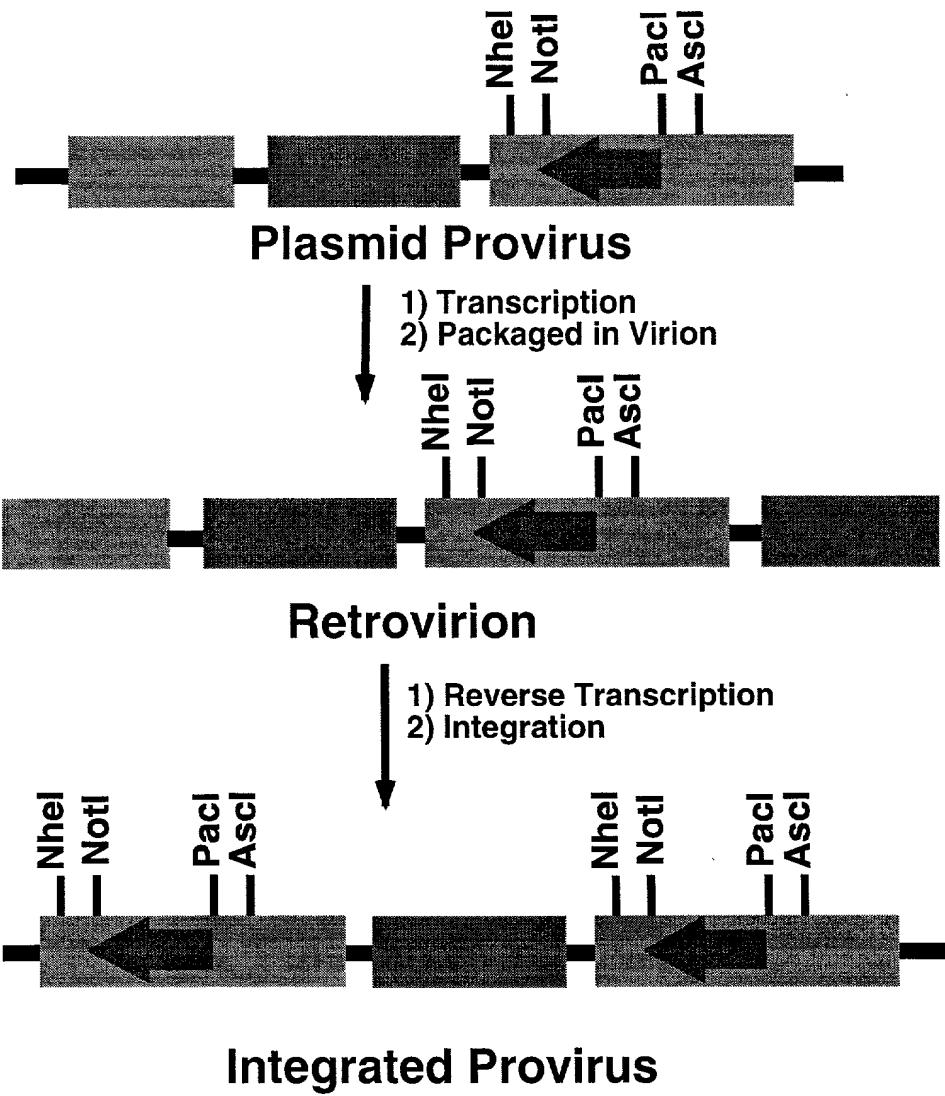
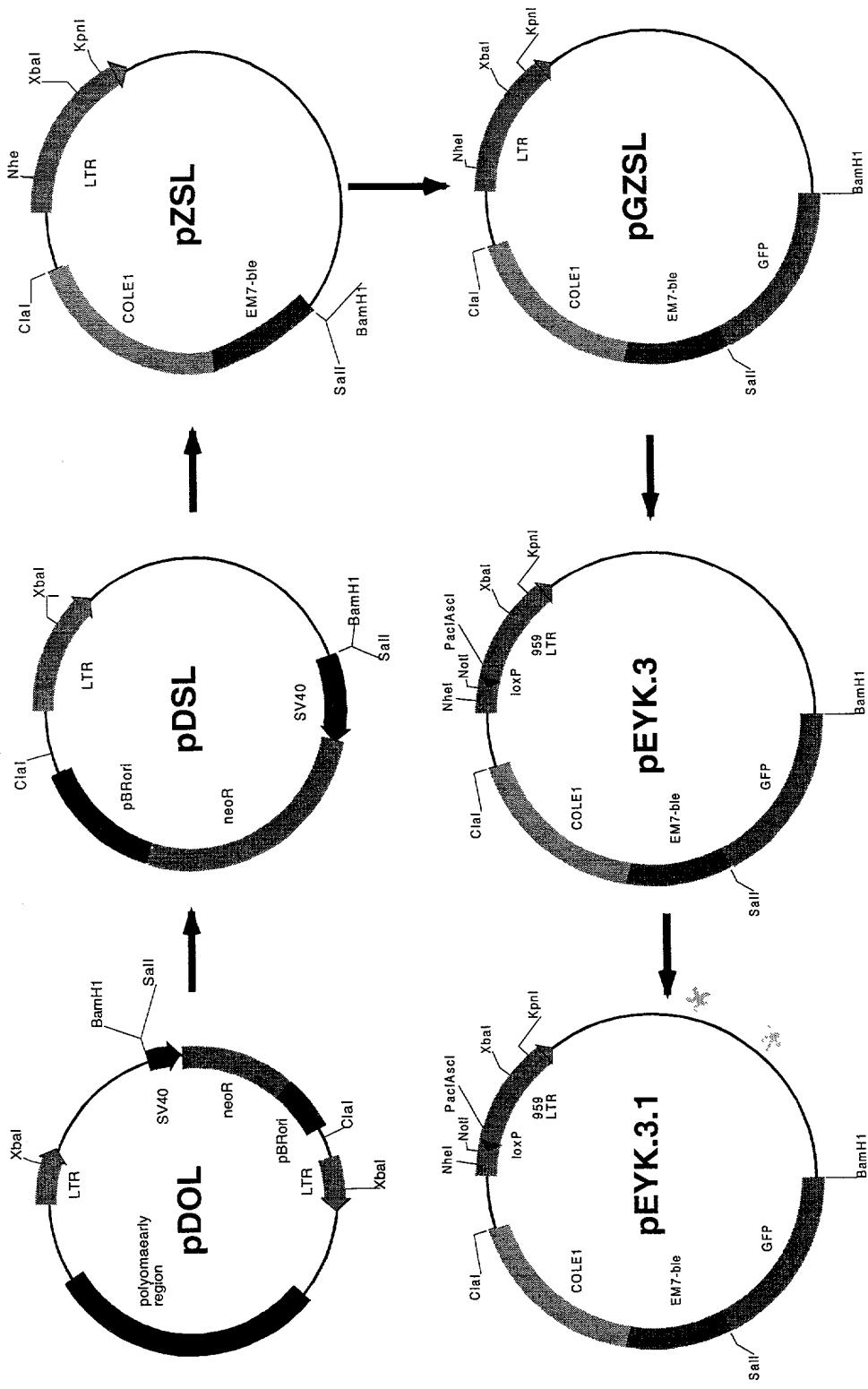


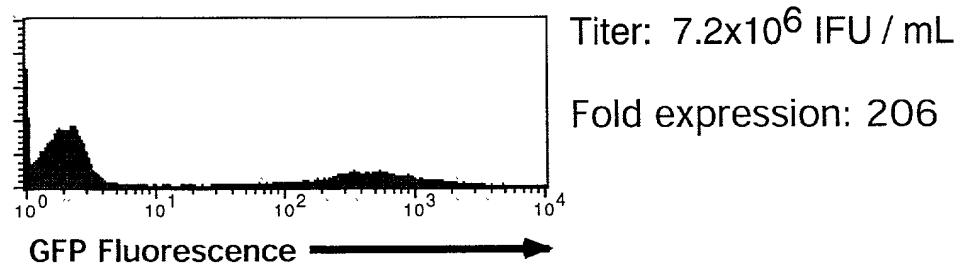
Figure 7

Figure 8





**pEYK.2.2**



**pEYK.2.3**

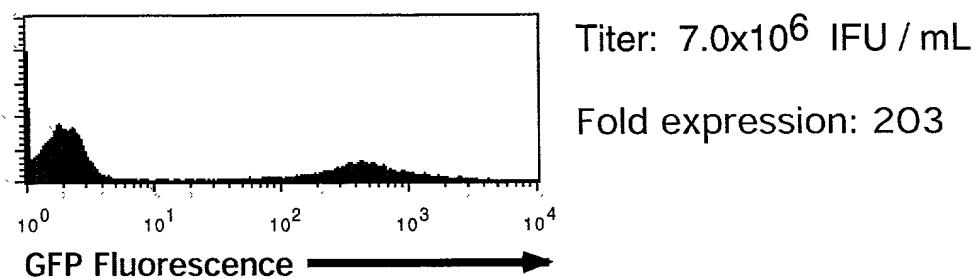


Figure 9

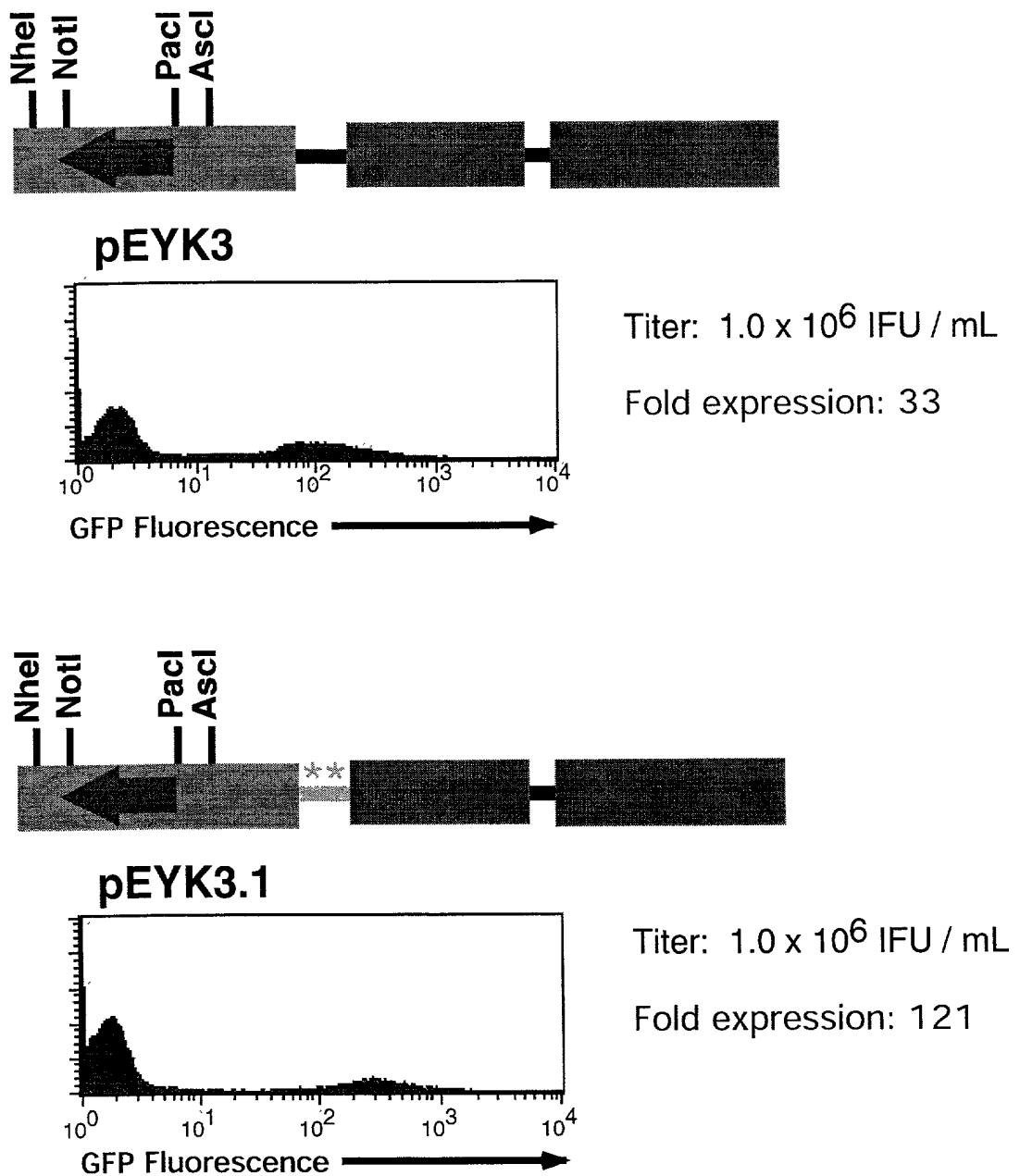
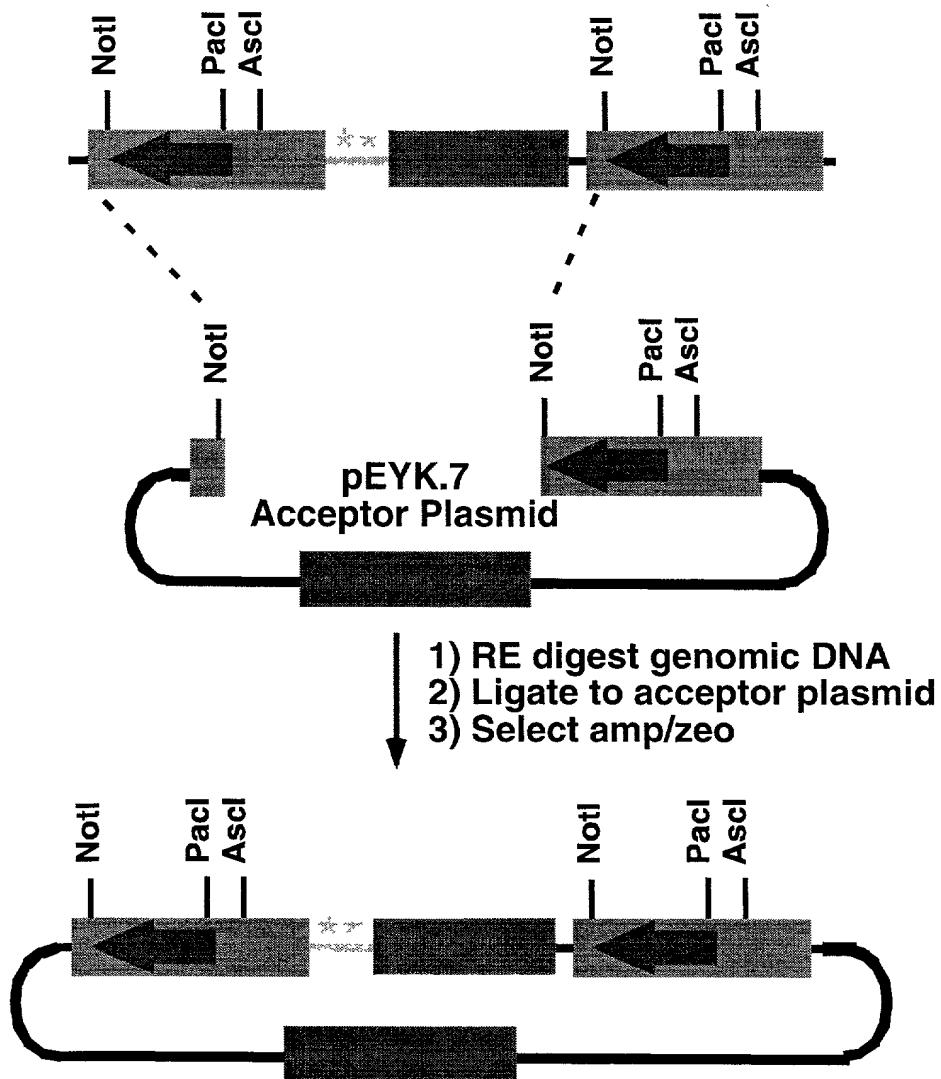


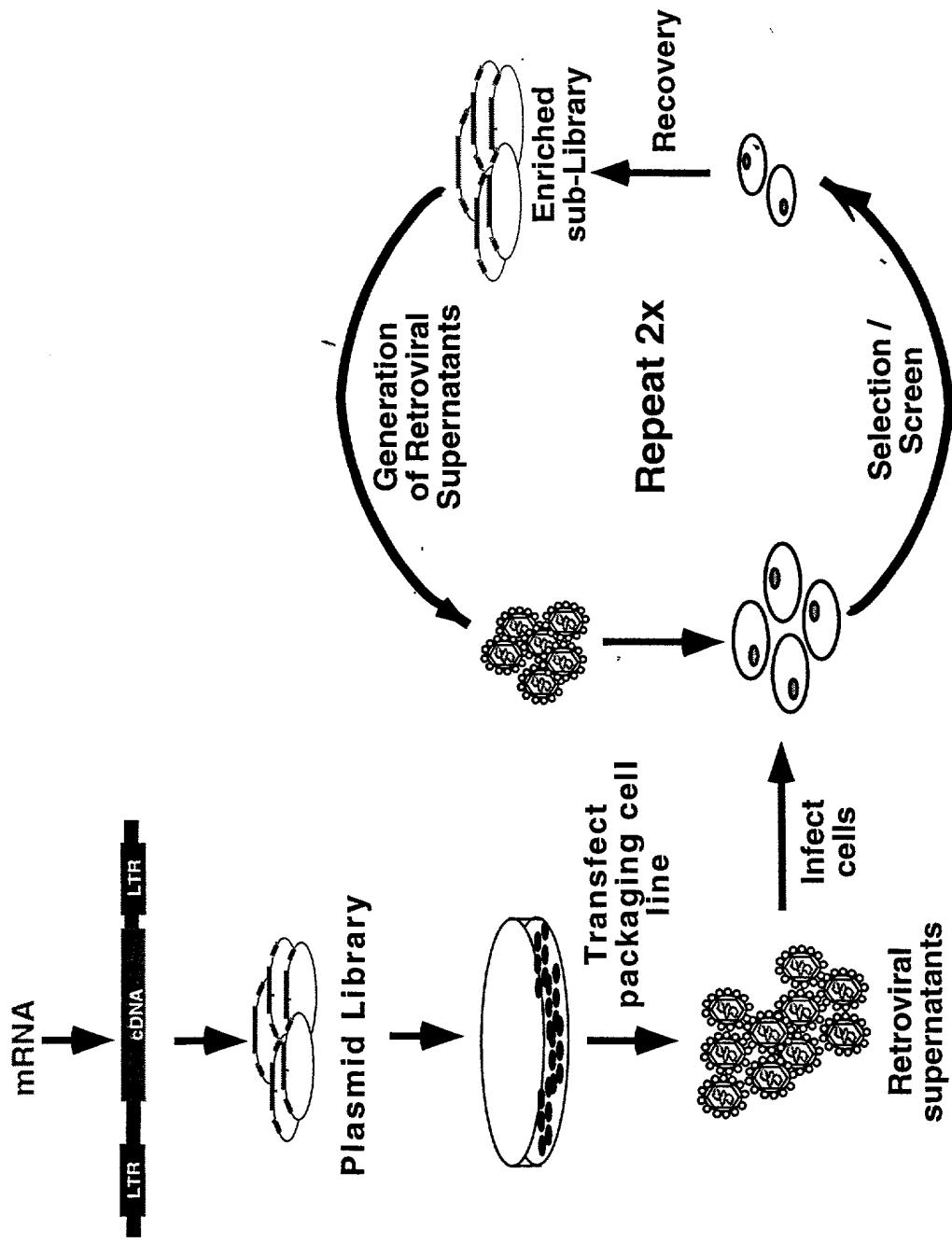
Figure 10

**Integrated pEYK.2.1 provirus**

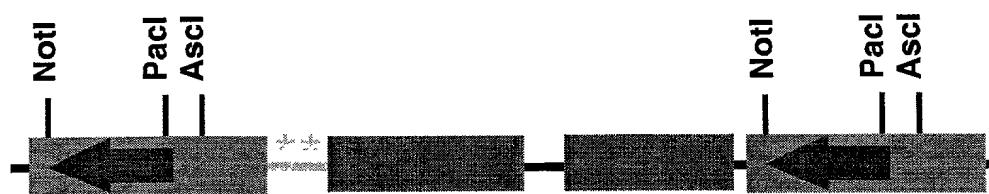


*Figure 11*

Figure 12



**A) Integrated B/A-pEYK.3.1 provirus**



**B)**

Reversion Analysis

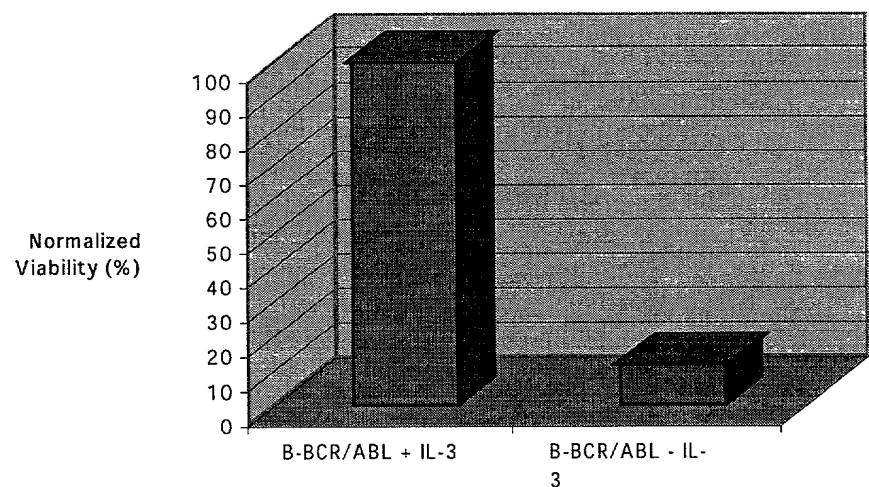


Figure 13